

THE ZARC CARRIER



The Newsletter of the Zanesville Amateur Radio Club

Satellites in polar orbit after successful Indian launch

By Stephen Clark
SPACEFLIGHT NOW
January 10, 2007

Use of Tripods to As- semble and Balance Big Antennas

By David Robbins, K1TTT

An Indian rocket successfully orbited a cache of four satellites Wednesday in the first space launch of the year.

Liftoff of the Polar Satellite Launch Vehicle was at 0353 GMT (10:53 p.m. EST Tuesday) from the Satish Dhawan Space Center on India's east coast. The four-stage rocket and its payloads arrived in orbit about 16 minutes after launch, and deployment of the satellites was completed about four minutes later.

The booster was shooting for a Sun-synchronous orbit about 395 miles high, according to the Indian Space Research Organization.

The 145-foot-tall rocket was the first PSLV to use a dual payload adapter to launch two primary payloads on the same mission. The Cartosat 2 Earth observation satellite rode atop the apparatus, while a recoverable capsule was housed below.

Cartosat 2 joins six other spacecraft currently operating in India's remote sensing satellite fleet, and is the 12th member of the program throughout its history. The 1,500-pound craft is a direct follow-on to the larger Cartosat 1 satellite, which was launched in 2005.

Data obtained by Cartosat 2 during its 5-year mission will aid officials in mapping and land management across India. The satellite carries a black-and-white camera with a resolution of better than one meter, according to ISRO officials.

The high resolution camera marks an improvement over Cartosat 1, which could only resolve objects as small as about two-and-a-half meters in black-and-white images. Cartosat 2's camera will take pictures in swaths approximately 6 miles wide, while Cartosat 1's camera produces imagery covering much larger areas almost 20 miles wide.

Cartosat 2 can also be pointed up to 45 degrees along and across its ground track as it flies above Earth, allowing it to gather different views of imagery targets.

Also released from the rocket's upper stage was the Space Capsule Recovery Experiment, a 1,200-pound cone-like craft that is India's first recoverable satellite.

The capsule, also known as SRE, will spend between 13 and 30 days in orbit conducting materials science and biotechnology experiments within a small laboratory inside the spacecraft.

After the experiments are complete, the craft will fire on-board thrusters to slow its velocity and drop into the atmosphere to a parachuted landing in the Bay of Bengal about 100 miles offshore from the Indian east coast.

The capsule includes an inflatable flotation system to keep the craft afloat until recovery forces arrive. Teams from ISRO and the Indian Coast Guard will take part in recovery operations, said an ISRO spokesperson.

Indian space officials hope a successful mission for the capsule will lead to the development of a recoverable platform for scientific experiments in microgravity.

Two secondary payloads were also launched Wednesday for international organizations.

LAPAN Tubsat is a microsatellite jointly managed by the Indonesian space agency and the

The antenna in this case is an M-Squared 40m4LLDD. It weighs 142lbs and has a 42' 2" boom. This is just a bit big and heavy to just pick up and find the balance point... plus the boom droops some when not supported as do the elements so it is difficult to just pick it up high enough by hand anyway.

Here is a way to ease assembly and balancing of a large antenna. The elements and boom are assembled separately in most cases. Once they are all together set up 2 tripods in the assembly area and put the boom on them. The tripods I use are made out of 10' pieces of old tv mast, but any reasonably decent pipe will work well. Chain link fence top rail is also a good material. Three pipes, a bit of rope, and an old Boy Scout Handbook (or Google for "Tripod Lashing") and you have a very serviceable tripod. With a bit of practice it is easy to raise and lower the boom and elements to comfortable working positions or even to walk the antenna around the area to get it ready to lift. After adding the elements to the boom and adding any other significant hardware you need to find the balance point. To do this I use a third tripod and a mast as shown below.

First, set up the third tripod over the boom and insert the mast through the boom to mast plate. It is possible to do it above the center tripod also, but this arrangement is inherently stable so I prefer it over that method. Tie the top of the mast to the top of the tripod and stick it down into the

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THE ZARC CARRIER

The Zarc Carrier is the newsletter of the Zanesville Amateur Radio Club, located in Zanesville, Muskingum County, Ohio and is published January, March, May, July, September, and November.

Send in your items of ham related interest, such as swap n shop ads, new hams in the area, birthdays, anniversaries, silent keys, ham fests, special events, and original written articles. Deadline is the first of the month before the month to be published. Enclose a SASE if your material is to be returned to you.

Any material in *The Zarc Carrier* may be reprinted as long as you give credit to the newsletter, the original author, and the original publication, if given.

Sample copies are available upon request and a SASE. If your club receives a complementary copy of *The Zarc Carrier*, we would appreciate a copy of yours in exchange.

ZARC MEMBERSHIP

The Zanesville Amateur Radio Club is an incorporated not-for-profit association. Membership is open to anyone interested in the purposes of the organization and who agrees to abide by the by-laws and other rules and regulations that may, from time to time, be established by ZARC.

ZARC Membership Application

Date New Membership Renewal

Name Call Sign

Address

City, St, Zip

Phone ARRL Member - Yes No

Prorates apply to new memberships only. Jan-Mar Apr-Jun Jul-Sep Oct-Dec

• Full (*Licensed Amateur*) ... 20.00 ... 15.00 ... 10.00 ... 5.00

• Family (*Of Full member—Licensed Amateurs—1st person, then \$5.00 for balance of family*) ... 10.00 ... 7.50 ... 5.00 ... 2.50

• Junior (*Licensed Amateur, 16 yrs. old or younger, still in school, not in same household as Family member*) ... 6.00 ... 4.50 ... 3.00 ... 1.50

• Associate (*Un-Licensed*) ... 10.00 ... 7.50 ... 5.00 ... 2.50

If Family Membership, Name and Call Sign of Full Member:

.....

E-Mail Address

Share E-Mail Address With: Members Only Anyone No One

Send ZARC CARRIER by: E-Mail (Adobe) USPS

Make check or money order out to ZARC and mail to:

Don Wahl, WA8BOV, ZARC Treasurer, P. O. Box 8203, Zanesville, Ohio 43701-8203



ZARC Net Control Stations

The Zanesville Amateur Radio Club 2 meter net meets every Wednesday night at 9 PM on 146.610 PL 74.4. The PL and time out are off during the net. All licensed Amateur Radio operators are welcome to check in.

February 2007

7th Mary Grandstaff, KB8ZXH
 14th Open
 21st Danny Grandstaff, KB8RIM
 28th Zippo Gillogly, K8CYN

March 2007

7th Mary Grandstaff, KB8ZXH
 14th Open
 21st Danny Grandstaff, KB8RIM
 28th Zippo Gillogly, K8CYN

Any ZARC club member is welcome to take an *Open* week as net control. Let me know that you are interested and I will see that you get a copy of the ZARC Net Preamble and assign you a Wednesday. Danny Grandstaff, KB8RIM, zcw8zzv@prodigy.net or 740-453-0400.

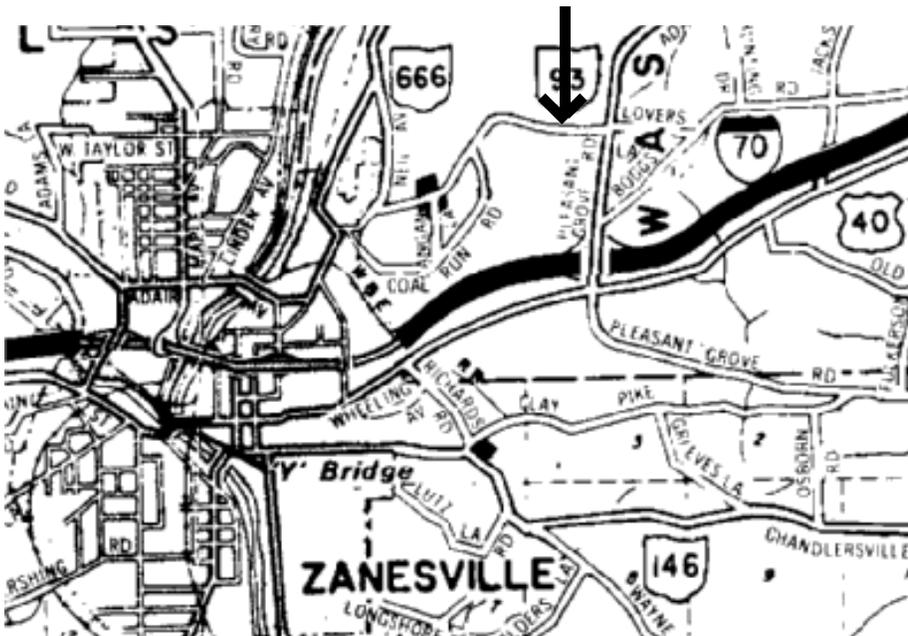
Printing Donated by Dan's Barber Styling, 819 Linden Ave., Zanesville, Ohio

The Armstrong Radio Repeater System

	Licking County	Muskingum County	Guernsey County	Perry County
VHF	146.835	147.075	147.000	146.820
UHF	443.925	442.250	444.375	none
PL	91.5	91.5	91.5	100.0

ZARC Meeting Place

From Rt. 40 at Pleasant Grove Rd. go north (Rt.93) on Pleasant Grove Rd. 1.1 mile, turn left on Adamsville Rd. and go about 0.3 mile. You will see a building on the right with multi-antennas. Stop here. Coming from Underwood St. go north on Hall Ave. from the traffic light about 2.5 miles and the building is on the left. Call in on 146.610, pl 74.4.



Area 2 Meter Nets

Sunday

147.045 Coshocton 9 PM

Monday

146.730 New Philadelphia 8 PM
 147.030 Lancaster 9 PM
 145.230 Coshocton 9 PM

Tuesday

146.760 Columbus 7:30 PM
 146.850 Cambridge 8 PM & 8:15 PM
 146.670 Millersburg 9 PM
 146.880 Newark 9 PM

Wednesday

147.345 Logan 8:30 PM
 146.610 Zanesville 9 PM
 147.210 Wooster 9 PM

Saturday

- * New Lexington 8 PM
- * © Multi-County Coalition 9 PM
- * The Armstrong Radio Repeater System
- © Alternate Frequency 146.610

Other Area Nets

Daily

147.240, PL 179.9 Columbus 7 PM

Wednesday s

- 1st - 8:30 PM 146.460
- 2nd - 8:30 PM 52.540 Simplex
- 3rd - 8:30 PM 28.390 SSB
- 4th - 8:30 PM 24.980 SSB
- 5th - 8:30 PM Wildcard (Any of the above)

Thursday

ZARC Six Meter Net 9 PM
 51.135 FM Simplex

Friday

Johnny Applesced 9 PM
 28.450 USB

Multi-County Coalition N C S

- First Sat. - Licking County
- Second Sat. - Guernsey County
- Third Sat. - Muskingum County
- Fourth Sat. - Open
- Odd Fifth Sat. - Coshocton County



Ohio Section News

By *Joanne Solak, KJ30*
 Affiliated Clubs Coordinator
 January 2007 News



The Care And Feeding of Our Young

By *Joe Phillips, K8QOE*
 Ohio Section Manager

HAPPY NEW YEAR 2007!! After all the hustle and bustle of getting ready for the BIG DAY I suppose most of us would just like to relax and remember all the memories 2006 brought to us (good and bad) and hope that 2007 will treat us BETTER! And I suppose most of us will do just that. For those of us that will take that moment or moments to look back on 2006, remember, 2007 brings us more hopes and dreams and we have the chance to start all over again into the new year. And doing so remember to make time for Amateur Radio and the ARRL and most of all, your local club.

Speaking of Local Clubs! The time is NOW to check your Club records and make sure you have filed that ANNUAL REPORT FORM! EVEN if nothing has changed within your club Officers, you must file that annual report form yearly, changes or no changes! AND if your club plans to have a Hamfest..notify Newington and get your Hamfest ARRL approved so that you can receive all the benefits an ARRL sanctioned hamfest event can receive. AND one of the most heard complaints last year about hamfests was I didn't know when it was!!!!!! so the word to the wise is ADVERTISE, ADVERTISE, ADVERTISE!! Make every effort to put your hamfest date and information out front! Remember to invite League Officials. The Ohio Cabinet has many officials who will attend your event ... just ask!! There is a lot of good information on the ARRL Web about all of this...visit it NOW!

Because of the Holidays, there is no particular SPOTLIGHT CLUB OF THE MONTH FOR JANUARY! So, I would like to Spotlight ALL OHIO AFFILIATED CLUBS! More Clubs brought your annual information up-to-date than previous years. Keep it up! Keep current! ARRL Affiliated Clubs actually keeps The ARRL on the move. It is so important, NOW, more than ever to support the ARRL! And the Ohio Section!

THE OHIO SECTION IS ON THE MOVE!!! My objective is to get as many "clubs" publicity as I can possibly achieve this year 2007! Please inform me of any "events" your club will be sponsoring and any Club News you would like me to highlight in the Ohio Section News. The information has to reach me by the 12th of the month to get published in the next months news.

The ARRL announced a new Monthly newsletter available via e-mail at no charge to ARRL Members. This newsletter is designed to "invigorate" Amateur Radio Clubs and their activities. If you would like to subscribe to the newsletter you must first be registered on the Members Only Web site <<http://www.arrl.org/members/>> You will have an opportunity during registration to sign up for e-mail delivery of the ARRL Club News. (just follow the links)

I was happy to receive a copy of the Pioneer Radiator last month. This newsletter is the newsletter of the Pioneer Amateur Radio Fellowship Club. This club holds its meetings at the Akron Baptist Temple on Manchester Road in Akron, Ohio. A couple activities of this club was the Harvest Food Drive, their Christmas dinner at the Hartville Kitchen, and the members were planning a great Holiday Season! Joy Spencer, KA8TDF, keeps this club on its "toes." Joy is the club treasurer.

The Sandusky Valley ARC reports their club has completed all the club projects for 2006. They have elected new officers for 2007 and are in the process of preparing 2007 events and projects!

The Massillon ARC assisted with the 52nd Annual Massillon Holiday Parade. It is reported that this parade brought to a close the MARC public service season. This parade is the oldest public service event that is handled by the club. Over 40 years and counting, Santa arrived in the city in no small part "thanks" to the MARC!

I would like to take this opportunity to "THANK" The Head Gadinza, Joe Phillips, K8QOE, also known as the Ohio Section Manager, for all his "support" to me as Affiliated Club Coordinator during the last year and into this year 2007! It is with his "guidance" and "support" that I can successfully call the year 2006 a successful year as ACC Ohio. AND, I look forward to this year 2007 as an equally successful as ACC OHIO!!

Well, that's it for this time around. All BEST WISHES to You and Yours from Me and Mine for a Happy, Healthy, and Prosperous New Year 2007!

Until next time, remember when you least expect it, I could be seeing YOU!
 BEST 73, JOANNE SOLAK, KJ30. ACC OHIO



*The Ohio Single Side Band Net meets 3 times a day
 (10:30am-4:15pm-6:45pm) on 3.972.5MHz.
 Why not join in on the fun and learn to pass formal traffic.*

At every forum, at every club meeting, at every Saturday breakfast, I am asked how do we add and keep young people in ham radio.

My question—I'm an old guy: why ask me?

So, I posed the question to the National Young Ham of the Year, Cathy Ferry, NC8F, of Summit County. At age 18, Cathy has been a ham for 8 years, newsletter editor of the Cuyahoga Falls ARC, and an extra class operator. Her answer follows.

Cathy Ferry, NC8F

First, let's talk about keeping the ham radio spirit alive in some teenager who just got a ham ticket. You may ask how does he/she learn about things that will keep their interest and activity in the hobby? I can only really answer with my own personal experiences since this is what I know best.

Being first licensed when I was 10, I didn't have any friends my age to share my new hobby with. So I tagged along with my dad (Bruce Ferry, AK8B) who had only been licensed a few months before me. But, if I was to remain tagging along only with my dad, my experiences would be limited. So I spread out a little bit.

I got to know some of the club members who had been licensed for a few years. They, in a sense, took me under their care. If it were not for them, I wouldn't know about Field Day, JOTA, public service, hamfests, or contesting. I would have never participated in any of this fun stuff. And then there are little things I learned along the way such as how to climb a tower safely.

All these things bring back such great memories. But I know I wouldn't have even half of these memories if it weren't for all those more experienced hams that have served as mentors. And whom I now consider friends.

So I guess the answer to the question would be—to keep new young hams alive in their community, they must be made to feel welcome. They must learn that other hams are approachable if they have a question.

Now how do we attract the younger generation of radio operators? That is a tough question. In this age of cell phones, instant messaging over computers, and e-mail, it is

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Handihams Courage

From the Handi-Ham E-Letter, September 21, 2005

Avery's QTH: The T-R Switch

Welcome once again to my humble QTH. Today, most amateurs don't even give it a second thought when they are "on the air" chatting with someone. Most single sideband & CW HF rigs today have VOX, voice operated relays, which allows us to carry on a conversation much like on a telephone where we can break in on the other person's conversation and ask for a repeat or whatever. Same is true on Morse Code where there is complete "Break in" so we can hear the receiver in-between the dits and dahs of transmitting and can catch the other person if they ask for a repeat or have something else to interject into the conversation.

This wasn't always true. In the "Good Old Days" of Amateur Radio we had a big box containing the transmitter and another big box containing the receiver, so that caused a problem when transmitting of how to keep the RF from getting into the receiver and overloading it causing at the very least some loud feedback noise and at the very most some burned out components. On the positive side, if controlled it made a good way to monitor one's CW transmitting and get a good idea of what the Morse sounded like to the receiving operator.

One way to prevent this uncontrolled stuff from happening was to use separate antennas placed some distance apart for transmitting and receiving. Both the transmitter and receiver had standby switches which either turned on or off the plate voltage to the tubes. When transmitting, an operator would flip the receiver standby switch to standby, then the transmit switch to operate, say what they wanted, and then reverse the process when it was time to receive. Now, sometimes having two different antennas was not so good so if the same antenna could be used for both transmitting and receiving it would be much better.

OK, so now there was a third switch that came into the picture every time an operator went from transmit to receive, or reverse. Some rigs that had external VFO's needed still another switch to be changed. There could be a considerable delay from the time an operator was receiving to when they went to transmit (or reverse) depending on the set up at the station and the location of the switches. Someone then came up with an idea to use a relay with separate contacts to change everything automatically when just one switch was used. Bingo... the first push-to-talk rigs! Some people even used foot switches in parallel with the hand switch so they could keep their hands free for taking notes (copying Morse on a typewriter), adjusting the knobs on the receiver/transmitter, or what-have-you.

Wouldn't you know that receivers and transmitters began showing up with an accessory socket with switched voltages just for controlling relays? Now an operator could control everything just from one switch on the transmitter or receiver and not have to go hunting several switches every time they went from receive to transmit or back again. Some attempts to use tubes to control the process with automatic keyers, etc., were developed but after technology improved and solid-state devices came into being this whole process was replaced with electronics.

The equipment of today has all that high-tech circuitry built-in and we don't even give it a second thought as we work contests, DX, etc. Just think of the fun it was to have to keep changing all those switches just to make one contact on Field Day and then multiply that by all the contacts made in the contest for example.

So until next time, 73 and DX from K0HLA, Avery k0hla@handiham.org



Satellites *From page 1*

Technical University of Berlin. The 123-pound spacecraft features a pair of medium and low resolution video cameras to be used for surveillance and remote sensing.

A small 13-pound craft called Pehuensat 1 was built by students in Argentina. The satellite also includes an amateur radio payload to broadcast telemetry data and voice messages in English, Spanish and Hindi.

The next launch of the PSLV will loft Italy's AGILE astrophysics observatory later this year. India also plans a launch of the larger Geosynchronous Satellite Launch Vehicle in July with INSAT 4CR, a communications satellite to replace the spacecraft lost in the GSLV's failure on its most recent mission in July 2006, according to an ISRO spokesperson.



Young *From page 4*

difficult. How does one spark a slight interest in kids and keep that interest burning? Ideas like the GOTA stations at Field Day is a place to start.

But the most important step to keep a youngster, who has been exposed to ham radio, coming back is to make sure he/she does not feel alienated. There's nothing worse than being the only teenager in the room and having nobody to talk to. Believe me.

Humans in general, but kids especially, thrive on interaction with others. So, even if you do nothing more than walk over, introduce yourself and invite this prospect to come out to Field Day or to ride along to the local hamfest, is a big step in the right direction.

It seems the biggest mistake people make is assuming that the new kid in the back will just show up again. Unfortunately, the truth is that prospective ham probably won't. So please, open up.



The *Newsline* Young Ham of the Year, Cathy Ferry, NC8F, of Silver Lake (Summit County) was honored during the Wednesday, July 26, Akron Aeros Double A baseball game at Akron's Canal Park. Here she is shown on the field before the game with Ohio Section Manager Joe Phillips, K8QOE (2nd from left), her father Bruce Ferry, AK8B, (left) and Cuyahoga Falls ARC president Bob McFadden, K8RJM. Cathy, an Extra Class ham who was first licensed at the age of ten, is the club's newsletter editor. She is a music major at Baldwin Wallace College near Cleveland and will receive the Young Ham of the Year at the August Huntsville (AL) Hamfest.

..... Photo by Beth McFadden

From the OHIO SECTION JOURNAL, Fall 2006



Tripods *From page 1*

ground a bit so it is nice and solid and vertical. Note that there is only one U bolt on the boom, and it is loose so it is easy to slide the boom through it to balance. Also note that the boom brace ropes are slack.



This is the whole setup with the boom still supported by the two tripods near the ends.



Carefully lower the two tripods, making sure that the mast is supporting the weight of the boom. Be careful that the element tips don't dig in to the ground. Depending on how high the boom plate is off the ground you may not have to completely lower the tripods, you just need to get them down enough so that you can check the balance.



Mark the balance point at the one U bolt. Insert the second U bolt and THEN slide the boom over so the balance point is between the two bolts. At this point you can also adjust the boom to mast plate so it is perpendicular to the elements. Either use a carpenter's level or with this antenna I just used the element brace posts as a vertical reference and aligned them to the mast then tightened down the boom U bolts.



Now just raise the two assembly tripods back up to support the ends of the boom. While the temporary mast is in place the boom is level you can also set the boom brace ropes to the right lengths.

Radio Clubs Drop Print Newsletters; Turn to WWW

"This is the last printed issue of the QuarterWave. Beginning with the next issue, the QuarterWave will be available ONLY "online" (as it is now) at the TCFMC website, www.tcfmc.org. The decision to go to an online only edition of QuarterWave was made by the TCFMC Board of Directors, earlier this year."

That was the announcement in the latest edition of the club newsletter for the Twin Cities FM Club, the largest amateur radio membership club in Minnesota. The reasons for dropping a print newsletter are common to all organizations, especially smaller clubs or non-profits. Let's consider the changes in ham radio news delivery over the past decade and a half.

Fifteen years ago, even small amateur radio clubs still produced and mailed print newsletters. The production was done on typewriters and computers, and copy machines were used to print black and white copies. Volunteers, or perhaps only a single really dedicated club member, would be responsible for copying, stapling, folding, addressing, and mailing. Time marched on, and ARRL decided to revise its QST content, as well as the delivery system for ARRL Letter. Section news would be delivered to members via email and www.arrrl.org, and QST would be trimmed to provide more universal content. The ARRL Letter disappeared in print format, but got even better, because it was now completely up-to-date, coming out each Friday with news that might have broken only that morning. Even better for blind and low-vision hams, the content of the ARRL Letter was read into "The ARRL Audio News" by Rick, N1RL, each Friday. By now, radio clubs were taking notice.

Maybe the Internet and the WWW would be a place to showcase club news and events after all! More clubs began putting up websites and making club newsletters available online. It wasn't long before many club members began to say, "No, thanks, I don't need a print newsletter. I can read it online (or via email)."

The advantages are clearer today than ever: Low-cost to the club, since there is no postage. Less work, since there is no copying, folding, stapling, and mailing. More current news, since it can be updated instantly. Full-color images and graphics can be read using screenreading technology by blind club members. Individual club members can print as many copies as they want or need. Links to

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That's only 52 years ago!

Comments made in the year 1955



"I'll tell you one thing, if things keep going the way they are, it's going to be impossible to buy a week's groceries for \$20."

"Have you seen the new cars coming out next year? It won't be long before \$2000 will only buy a used one."

"If cigarettes keep going up in price, I'm going to

quit. A quarter a pack is ridiculous."

"Did you hear the post office is thinking about charging a dime just to mail a letter?"

"If they raise the minimum wage to \$1, nobody will be able to hire outside help at the store."

"When I first started driving, who would have thought gas would someday cost 29 cents a gallon. Guess we'd be better off leaving the car in the garage."

"Kids today are impossible. Those duck tail hair cuts make it impossible to stay groomed. Next thing you know, boys will be wearing their hair as long as the girls."



"I read the other day where some scientist thinks it's possible to put a man on the moon by the end of the century. They even have some fellows they call astronauts preparing for it down in Texas."

"Did you see where some baseball player just signed a contract for \$75,000 a year just to play ball? It wouldn't surprise me if someday they'll be making more than the president."

"I never thought I'd see the day all our kitchen appliances would be electric. They are even making electric typewriters now."

"It's too bad things are so tough nowadays. I see where a few married women are having to work to make ends meet."

"It won't be long before young couples are going to have to hire someone to watch their kids so they can both work."

"Marriage doesn't mean a thing any more; those Hollywood stars seem to be getting divorced at the drop of a hat."

"I'm just afraid the Volkswagen car is going to open the door to a whole lot of foreign business."

Thank goodness I won't live to see the day when the Government takes half our income in taxes. I sometimes wonder if we are electing the best people to congress."

"The drive-in restaurant is convenient in nice weather, but I seriously doubt they will ever catch on."

"There is no sense going to Lincoln or Omaha anymore for a weekend. It costs nearly \$15 a night to stay in a hotel."

"No one can afford to be sick any more; \$35 a day in the hospital is too rich for my blood."

"If they think I'll pay 50 cents for a hair cut, forget it."

Newsletters

From page 6

web resources can be active in an online newsletter.

But there are some disadvantages, too: A few club members may not have computers. Club publications sent by email may be lost in spam filters or otherwise ignored due to volume of email. You may not always be near a computer when you want to refer to the club newsletter. Some clubs have done an end-run around these problems by asking members with computers to print a couple of copies of the club newsletter for members who do not have computers. In any case, the trend is clear: Your club will be dropping its regular print newsletter. It's just a matter of when.



This was posted in the Handi-Ham E-Letter, September 21, 2005. So far we have not had to go this route with the ZC but who knows what may be down the road?

Editor.



Error Reporting

When a program freezes in Windows XP, a message asks me to send the details to Microsoft. This makes me uncomfortable. Can I stop this?

Microsoft wants that information to track problems in XP. The company says it aggregates the data and is not interested in the contents of your files. It is easy to turn the message off.

From the Desktop, right click My Computer. Select Properties, and then Advanced. Click Error Reporting and, once there, select "Disable Error Reporting."



The Amateur Radio Crossword Puzzler

By *H. Ward Silver, N0AX*
August 4, 2006

Many hams either play or enjoy music, but how many have stopped to consider how many terms are found in both? Quite a few, as this quiz illustrates! Many words do dual duty for both musician and radio aficionado. You may find yourself humming along as you work out this week's puzzle.

Across *"Music of the (Iono)Spheres"*

- 1. Low audio frequencies
- 4. Rhythm or display
- 8. Holds an instrument or a radio
- 11. Prefix meaning "no longer"
- 12. Identity or a famous doctor
- 13. One entry in a list
- 15. Cartesian coordinates
- 16. Between La and Do or strong metal (chemical symbol)
- 17. Measures volts (abbr)
- 18. Plucked to make sound or holds up antennas
- 20. Hypnotic state
- 22. Time zone between CST and AST
- 23. Coffee holder
- 24. Big music town and ARRL section
- 27. Reversing current
- 28. Greet or laugh
- 30. DX ..
- 31. If you're too loud at the concert
- 33. A hit in a new genre or frequency separator
- 37. Hold down
- 39. Frequency determining circuits
- 40. Transcendental ratio
- 41. Make it up or improvise (two words)
- 42. Change key or add information
- 44. From low to high frequency
- 47. Belarus prefix
- 48. Used in the sax and early PL encoders
- 50. City by the bay (abbr)
- 51. Learn by practicing
- 52. Going (CW abbr)
- 53. Belongs to you (CW abbr)
- 54. Path over which both antennas are visible (abbr)
- 55. Switches the antenna in a transceiver
- 57. Source of inspiration or to consider
- 61. Not paid for yet
- 63. Emphasize or non-native language characteristic
- 65. Person who signs off on tower plans
- 66. Unmodified or not man-made
- 69. Powered up
- 70. First colony to become a state (postal code)
- 71. Model prefix for Hallicrafters receivers
- 72. Energetic or maximum power level
- 73. Difference in pitch or time

Down

- 1. Sum and difference of frequencies
- 2. Your editor's favorite suffix
- 3. Syncopated music or code
- 4. Display or build a prototype
- 5. What keeps everything from happening at once
- 6. Phoned home
- 7. Stop playing or working
- 9. Line around which something spins
- 10. Electronic device that generates frequencies

1	2		3		4		5	6	7		8	9	10	
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71			72				73							

- 14. Big Sky country (postal code)
- 16. Greek letter used to denote time
- 19. Instrument or sound storage device
- 21. Used to measure power in a waveform
- 25. Off key or by mistake
- 26. Unauthorized recording or transmission
- 27. Stand by (CW prosign)
- 29. Calculates voltage drop
- 30. Upside down chords or temperatures
- 32. Budapest prefix
- 34. Clockwise rotation (abbr)
- 35. Simplest type of flip-flop
- 36. Wind instrument or an antenna
- 38. Stable capacitor
- 41. Impedance matching device (abbr)
- 42. Evaluate numerically
- 43. Amplify or enhance
- 45. Audible frequencies (abbr)
- 46. Prefix meaning "of the Earth"
- 49. Used for sight-reading and found on screws
- 54. Permit
- 56. Timing circuit
- 58. Prefix meaning "not"
- 59. Lead performer or heavenly body
- 60. Type of dance or holder of wound rope
- 62. Grow larger
- 64. Prefix meaning "opposite"
- 65. Device that stores music files (abbr)
- 67. Where the antennas go
- 68. Provides wireless network connection (abbr)



Why People Believe in God

We are told to have an answer for people who ask us why we believe in God. This is a good example of an answer to one of the most common reasons people give for ignoring God and His goodness.

A man went to a barbershop to have his hair cut and his beard trimmed. As the barber began to work; they began to have a good conversation. They talked about so many things and various subjects. When they eventually touched on the subject of God, the barber said: "I don't believe that God exists." "Why do you say that?" asked the customer. "Well, you just have to go out in the street to realize that God doesn't exist. Tell me, if God exists, would there be so many sick people? Would there be abandoned children? If God existed, there would be neither suffering nor pain. I can't imagine a loving a God who would allow all of these things."

The customer thought for a moment, but didn't respond because he didn't want to start an argument. The barber finished his job and the customer left the shop. Just after he left the barbershop, he saw a man in the street with long, stringy, dirty hair and an untrimmed beard. He looked dirty and unkempt. The customer turned back and entered the barber shop again and he said to the barber: "You know what? Barbers do not exist."

How can you say that?" asked the surprised barber. "I am here, and I am a barber. And I just worked on you!" "No!" the customer exclaimed. "Barbers don't exist because if they did, there would be no people with dirty long hair and untrimmed beards, like that man outside."

"Ah, but barbers DO exist! What happens is people do not come to me." "Exactly!"- affirmed the customer. "That's the point! God, too, DOES exist! What happens, is, people don't go to Him and do not look for Him. That's why there's so much pain and suffering in the world."

From the Internet—Author Unknown



"Music of the (Iono)Spheres" Solution

1	B	A	S	S	4	M	E	T	E	R	8	C	A	S	E			
11	E	X	12	W	H	O	13	I	T	E	14	M	15	X	Y			
A	16	T	I	17	D	V	M	18	S	T	19	R	I	N	G			
20	T	R	A	N	C	E	E	T	22	E	S	T						
23	M	U	G	24	L	A	25	A	26	B	27	A	C	28	H			
30	I	S	31	S	H	32	H	33	C	R	O	S	35	S	O	V	E	R
N	36	H	37	A	N	C	H	O	R	38	R	S						
39	V	F	O	S	40	P	I	T	41	A	D	L	I	B				
E	42	R	M	O	D	43	U	L	A	T	E	Z						
44	R	A	N	G	E	E	47	E	U	48	R	49	E	E	D			
50	S	F	51	E	A	R	N	52	G	53	Y	R						
I	54	L	O	S	56	T	R	57	M	58	U	S	E	60	R			
61	O	W	E	U	63	A	C	64	C	E	N	T	65	P	E			
66	N	A	T	U	R	68	A	L	69	O	N	A	70	D	E			
71	S	X	72	P	E	P	73	I	N	T	E	R	V	A	L			

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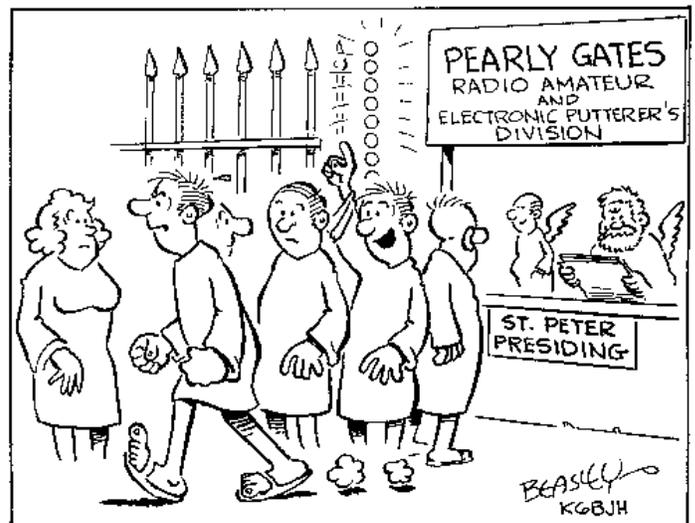
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First Tuesday of each month 7 pm
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UNDER THE COVERS

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HE WANTED TO GO UP FOR BETTER RADIO PROPAGATION, BUT OL' ST PETE TOLD HIM WHERE HE'S GOING, HE'LL HAVE AN EXCELLENT GROUND!

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